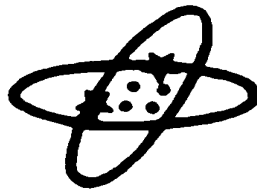


CHAPTER 32



ELECTRONICS TECHNICIAN (ET)

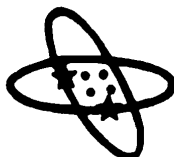
NAVPERS 18068-32F

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NAVY ENLISTED OCCUPATIONAL STANDARD
FOR
ELECTRONICS TECHNICIAN (NAVIGATION) ET (V)



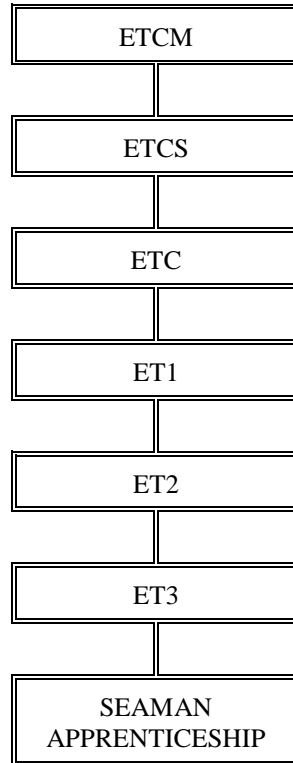
SCOPE OF RATING

Electronics Technicians (Navigation) ET (V) operate and perform maintenance on electronic equipment used for detection, tracking, recognition, and identification of all maritime vessels and navigational aids; operate and perform maintenance on Interior Communications (IC), alarms, warnings and indicators, ship's control, entertainment, gyrocompass, inertial navigation, atmosphere control, instrumentation, and control systems. They also operate and maintain personal computers, electronic, and auxiliary equipment used to safely and accurately navigate all classes of submarines; maintain highly accurate navigation data for use by the Strategic Weapons Systems (SWS), develop and execute navigation plans; stand watch as assistants to officers of the deck and to navigators; perform ship control, navigation, and lookout duties; procure, correct, use, and stow navigation publications and charts; maintain navigational instruments, and computer software. Keep correct navigational time and render "honors and ceremonies" in accordance with national observance and foreign customs.

This Occupational Standard is to be incorporated in Volume I, Part B, of the Manual of Navy Enlisted Manpower and Personnel Classifications and Occupational Standards (NAVPERS 18068F) as Chapter 32.

GENERAL INFORMATION

CAREER PATTERN



Normal path of advancement to Chief Warrant Officer and Limited Duty Officer categories can be found in OPNAVINST 1420.1.

For rating entry requirements, refer to MILPERSMAN 1306-618.

SAFETY

The observance of proper safety precautions in all areas is an integral part of each billet and the responsibility of every Sailor; therefore, it is a universal requirement for all ratings.

Job Title**Submarine Navigation Operator****Job Code****001182****Job Family**

Installation, Maintenance, and Repair

NOC

4900-2093.00

Short Title (30 Characters)

SUBMARINE NAVIGATION OPERATOR

Short Title (10 Characters)

SSNAV OP

Pay Plan

Enlisted

Career Field

ET(V)

Proficiency Level

A/J

Other Relationships and Rules:

NECs may include 14NO, 14XO, 14NM, 14NP, and 14TK

Job Description

Submarine Navigation Operators operate electronic equipment used for detection, tracking, recognition and identification of all maritime vessels and aids to navigation. They operate and perform basic preventive maintenance on radar systems, interior communications circuits, fathometers, Voyage Management Systems (VMS), alarm systems, ship's control stations, entertainment systems, gyrocompasses, Central Atmosphere Monitoring Systems (CAMS), liquid level detection and tank level indication circuits, flowmeters, pressure and temperature sensing circuits, valve position indicators, hovering systems, and missile compensation systems. They operate General Purpose Test Equipment (GPTE), personal computers, and auxiliary equipment. They procure, inventory, update, and correct navigation charts and publications, prepare navigation voyage plans, paper and electronic charts, and maintain navigation logs and records. They stand navigation-related watches and advise and make reports to the Officer of the Deck (OOD) on rules of the road, navigation plans, and other navigation matters. Submarine Navigation Operators usually work under the Supervision of a Submarine Navigation Technician or Submarine Navigation Manager.

DoD Relationship**Title and Group:**

Navigation, Communication, and Countermeasure, N.E.C
110

Code and Area:

110200

11

O*NET Relationship**Title and SOC Code:**

Electrical and Electronics Installers and Repairers, Transportation Equipment
49-2093.00

Name and Family Code:

Installation, Maintenance, and Repair

49

ADMINISTRATION**Paygrade**

E4

Task Type

CORE

Task Statements

Compute times of moonrise and moonset

*Mathematics
Critical Thinking*

Abilities

*Mathematical Reasoning
Problem Sensitivity*

E4

CORE

Compute times of morning and evening twilight

*Mathematics
Critical Thinking*

*Mathematical Reasoning
Problem Sensitivity*

E4

CORE

Compute times of sunrise and sunset

*Mathematics
Critical Thinking*

*Mathematical Reasoning
Problem Sensitivity*

E5

CORE

Conduct entering port checks

*Complex Problem Solving
Critical Thinking*

*Problem Sensitivity
Written Comprehension*

E4

CORE

Conduct navigation pre-underway checks

*Complex Problem Solving
Critical Thinking*

*Problem Sensitivity
Written Comprehension*

E4

CORE

Convert between Greenwich Mean Time (GMT) and Zone Time (ZT)

*Mathematics
Science*

*Mathematical Reasoning
Number Facility*

E5

CORE

Convert between time and arc

*Mathematics
Science*

*Mathematical Reasoning
Number Facility*

E4

CORE

Identify time zones and standard meridians

*Critical Thinking
Mathematics*

*Deductive Reasoning
Mathematical Reasoning*

E4

CORE

Interpret blueprints

*Complex Problem Solving
Critical Thinking*

*Deductive Reasoning
Written Comprehension*

E4

CORE

Maintain bearing logs

*Management of Material Resources
Reading Comprehension*

*Information Ordering
Written Expression*

E4

CORE

Maintain compass logs

*Management of Material Resources
Reading Comprehension*

*Information Ordering
Written Expression*

E4

CORE

Maintain deck logs

*Management of Material Resources
Reading Comprehension*

*Information Ordering
Written Expression*

E4	CORE	Maintain fathometer logs	<i>Management of Material Resources Reading Comprehension</i>	<i>Information Ordering Written Expression</i>
E4	CORE	Maintain position logs	<i>Management of Material Resources Reading Comprehension</i>	<i>Information Ordering Written Expression</i>
E5	CORE	Maintain Strategic Weapons System (SWS) data packages	<i>Management of Material Resources Reading Comprehension</i>	<i>Information Ordering Written Expression</i>
E4	CORE	Maintain Strategic Weapons System (SWS) logs	<i>Management of Material Resources Reading Comprehension</i>	<i>Information Ordering Written Expression</i>
E5	CORE	Maintain Strategic Weapons System (SWS) special publications	<i>Management of Material Resources Reading Comprehension</i>	<i>Information Ordering Written Expression</i>
E6	CORE	Prepare Movement Reports (MOVREPS)	<i>Reading Comprehension Complex Problem Solving</i>	<i>Fluency of Ideas Written Expression</i>
E4	CORE	Prepare position reports	<i>Reading Comprehension Complex Problem Solving</i>	<i>Written Expression Information Ordering</i>
E4	CORE	Record observed sea conditions	<i>Writing Critical Thinking</i>	<i>Written Expression Information Ordering</i>
E4	CORE	Record observed sunrises and sunsets	<i>Writing Critical Thinking</i>	<i>Written Expression Information Ordering</i>
E4	CORE	Record observed weather conditions	<i>Writing Critical Thinking</i>	<i>Written Expression Information Ordering</i>
E4	CORE	Review Hazardous Material Users Guides (HMUG)	<i>Reading Comprehension Critical Thinking</i>	<i>Written Comprehension Problem Sensitivity</i>

CHART PREPARATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Calculate Estimated Time of Arrival (ETA)	<i>Mathematics Critical Thinking</i>	<i>Deductive Reasoning Mathematical Reasoning</i>
E5	CORE	Calculate red and yellow soundings	<i>Mathematics Critical Thinking</i>	<i>Deductive Reasoning Mathematical Reasoning</i>
E5	CORE	Calculate rudder angles for turns	<i>Mathematics Critical Thinking</i>	<i>Deductive Reasoning Mathematical Reasoning</i>
E4	CORE	Calculate Speed Of Advance (SOA)	<i>Mathematics Critical Thinking</i>	<i>Deductive Reasoning Mathematical Reasoning</i>
E5	CORE	Calculate turn bearings	<i>Mathematics Critical Thinking</i>	<i>Deductive Reasoning Mathematical Reasoning</i>
E5	CORE	Calculate turn points	<i>Mathematics Critical Thinking</i>	<i>Deductive Reasoning Mathematical Reasoning</i>
E5	CORE	Calculate turn ranges	<i>Mathematics Critical Thinking</i>	<i>Deductive Reasoning Mathematical Reasoning</i>
E5	CORE	Compute times of high and low tide	<i>Mathematics Critical Thinking</i>	<i>Mathematical Reasoning Problem Sensitivity</i>
E5	CORE	Compute water levels at high and low tide	<i>Mathematics Critical Thinking</i>	<i>Mathematical Reasoning Problem Sensitivity</i>
E4	CORE	Correct nautical charts	<i>Critical Thinking Mathematics</i>	<i>Problem Sensitivity Written Comprehension</i>
E4	CORE	Determine buoy systems	<i>Critical Thinking Judgment and Decision Making</i>	<i>Deductive Reasoning Written Comprehension</i>

E5	CORE	Review charts for accuracy	<i>Critical Thinking Judgment and Decision Making</i>	<i>Deductive Reasoning Written Comprehension</i>
E6	CORE	Determine chart allowances	<i>Critical Thinking Judgment and Decision Making</i>	<i>Deductive Reasoning Written Comprehension</i>
E4	CORE	Determine chart data sources	<i>Critical Thinking Judgment and Decision Making</i>	<i>Deductive Reasoning Written Comprehension</i>
E5	CORE	Determine danger areas	<i>Critical Thinking Judgment and Decision Making</i>	<i>Deductive Reasoning Written Comprehension</i>
E5	CORE	Determine lines of demarcation	<i>Critical Thinking Judgment and Decision Making</i>	<i>Deductive Reasoning Written Comprehension</i>
E6	CORE	Determine navigation publications allowances	<i>Critical Thinking Judgment and Decision Making</i>	<i>Deductive Reasoning Written Comprehension</i>
E4	CORE	Determine shoal water	<i>Critical Thinking Judgment and Decision Making</i>	<i>Deductive Reasoning Written Comprehension</i>
E5	CORE	Graph tidal data	<i>Mathematics Critical Thinking</i>	<i>Number Facility Mathematical Reasoning</i>
E5	CORE	Interpret chart information using sailing directions and fleet guides	<i>Complex Problem Solving Critical Thinking</i>	<i>Deductive Reasoning Written Comprehension</i>
E4	CORE	Inventory charts	<i>Management of Material Resources Mathematics</i>	<i>Problem Sensitivity Written Comprehension</i>
E4	CORE	Inventory navigation publications	<i>Management of Material Resources Mathematics</i>	<i>Problem Sensitivity Written Comprehension</i>
E4	CORE	Maintain chart files	<i>Management of Material Resources Reading Comprehension</i>	<i>Information Ordering Written Expression</i>
E5	CORE	Maintain intelligence plots	<i>Management of Material Resources Reading Comprehension</i>	<i>Information Ordering Written Expression</i>
E5	CORE	Maintain navigation hazard message files	<i>Management of Material Resources Reading Comprehension</i>	<i>Information Ordering Written Expression</i>
E4	CORE	Maintain navigation publications	<i>Management of Material Resources Reading Comprehension</i>	<i>Information Ordering Written Expression</i>
E5	CORE	Maintain Notice To Mariners (NTM) files	<i>Management of Material Resources Reading Comprehension</i>	<i>Information Ordering Written Expression</i>
E5	CORE	Maintain ship's current operations binders	<i>Management of Material Resources Reading Comprehension</i>	<i>Information Ordering Written Expression</i>
E5	CORE	Maintain ship's Navigational Area (NAVAREA), Hydrographic Atlantic (HYDROLANT), and Hydrographic Pacific (HYDROPAC) files	<i>Management of Material Resources Reading Comprehension</i>	<i>Information Ordering Written Expression</i>
E5	CORE	Order charts	<i>Management of Material Resources Equipment Selection</i>	<i>Written Comprehension Number Facility</i>
E5	CORE	Order navigation publications	<i>Management of Material Resources Equipment Selection</i>	<i>Written Comprehension Number Facility</i>
E5	CORE	Plot anchorages	<i>Critical Thinking Mathematics</i>	<i>Written Expression Mathematical Reasoning</i>
E4	CORE	Plot arc of visibility of lights	<i>Critical Thinking Mathematics</i>	<i>Written Expression Mathematical Reasoning</i>
E5	CORE	Plot danger bearings	<i>Critical Thinking Mathematics</i>	<i>Written Expression Mathematical Reasoning</i>

E5	CORE	Plot danger ranges	<i>Critical Thinking Mathematics</i>	<i>Written Expression Mathematical Reasoning</i>
E5	CORE	Plot maximum deviations from proposed track	<i>Critical Thinking Mathematics</i>	<i>Written Expression Mathematical Reasoning</i>
E6	CORE	Plot moving havens	<i>Critical Thinking Mathematics</i>	<i>Written Expression Mathematical Reasoning</i>
E5	CORE	Plot swing and drag circles	<i>Critical Thinking Mathematics</i>	<i>Written Expression Mathematical Reasoning</i>
E5	CORE	Plot turn slide bars	<i>Critical Thinking Mathematics</i>	<i>Written Expression Mathematical Reasoning</i>
E5	CORE	Predict current direction and speed	<i>Mathematics Science</i>	<i>Mathematical Reasoning Information Ordering</i>
E5	CORE	Prepare charts for navigation	<i>Complex Problem Solving Mathematics</i>	<i>Finger Dexterity Information Ordering</i>
E5	CORE	Prepare open ocean tracks	<i>Reading Comprehension Complex Problem Solving</i>	<i>Written Expression Information Ordering</i>
E5	CORE	Prepare precision anchoring plans	<i>Reading Comprehension Complex Problem Solving</i>	<i>Written Expression Information Ordering</i>
E5	CORE	Prepare restricted water tracks	<i>Reading Comprehension Complex Problem Solving</i>	<i>Written Expression Information Ordering</i>
E5	CORE	Recommend courses for navigating a measured mile	<i>Complex Problem Solving Speaking</i>	<i>Deductive Reasoning Information Ordering</i>
E5	CORE	Select essential charts for proposed transits	<i>Complex Problem Solving Equipment Selection</i>	<i>Written Comprehension Deductive Reasoning</i>

COMMUNICATIONS AND ALARM SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Adjust loudspeakers	<i>Operation Monitoring Systems Analysis</i>	<i>Deductive Reasoning Manual Dexterity</i>
E4	CORE	Align sound-powered telephones distribution matrixes	<i>Equipment Maintenance Operation and Control</i>	<i>Manual Dexterity Rate Control</i>
E4	CORE	Clean alarm switchboards	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Clean amplified communication systems	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Clean central amplifier systems	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Clean intercommunicating stations	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Clean liquid level alarm sensing devices	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Clean loudspeakers	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Clean microphone control stations	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Problem Sensitivity</i>
E5	CORE	Clean pressure alarm sensing devices	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Problem Sensitivity</i>

E4	CORE	Clean security alarm sensing devices	Equipment Maintenance Management of Material Resources	Manual Dexterity Problem Sensitivity
E4	CORE	Clean shore telephone systems	Equipment Maintenance Management of Material Resources	Manual Dexterity Problem Sensitivity
E4	CORE	Clean sound-powered telephone systems	Equipment Maintenance Management of Material Resources	Manual Dexterity Problem Sensitivity
E4	CORE	Clean temperature alarm sensing devices	Equipment Maintenance Management of Material Resources	Manual Dexterity Problem Sensitivity
E4	CORE	Cross-connect sound-powered telephone circuits	Systems Analysis Equipment Maintenance	Information Ordering Problem Sensitivity
E4	CORE	Un-rig emergency sound-powered telephone circuits	Installation Management of Material Resources	Manual Dexterity Finger Dexterity
E4	CORE	Inspect intercommunicating stations	Equipment Maintenance Quality Control Analysis	Near Vision Problem Sensitivity
E4	CORE	Inspect liquid level alarm sensing devices	Equipment Maintenance Quality Control Analysis	Near Vision Problem Sensitivity
E4	CORE	Inspect loudspeakers	Equipment Maintenance Quality Control Analysis	Near Vision Problem Sensitivity
E4	CORE	Inspect microphone control stations	Equipment Maintenance Quality Control Analysis	Near Vision Problem Sensitivity
E4	CORE	Inspect security alarm sensing devices	Equipment Maintenance Quality Control Analysis	Near Vision Problem Sensitivity
E4	CORE	Inspect temperature alarm sensing devices	Equipment Maintenance Quality Control Analysis	Near Vision Problem Sensitivity
E4	CORE	Isolate sound-powered telephone circuits	Troubleshooting Complex Problem Solving	Problem Sensitivity Information Ordering
E4	CORE	Lubricate intercommunicating station components	Equipment Maintenance Management of Material Resources	Manual Dexterity Control Precision
E4	CORE	Replace microphone control station components	Equipment Maintenance Installation	Control Precision Problem Sensitivity
E4	CORE	Rig emergency sound-powered telephone circuits	Equipment Selection Critical Thinking	Selective Attention Written Comprehension
E4	CORE	Rig shore telephone lines	Equipment Selection Critical Thinking	Selective Attention Written Comprehension
E4	CORE	Test alarm switchboards	Quality Control Analysis Monitoring	Deductive Reasoning Information Ordering
E4	CORE	Test central amplifier systems	Quality Control Analysis Monitoring	Deductive Reasoning Information Ordering
E4	CORE	Test intercommunicating stations	Quality Control Analysis Monitoring	Deductive Reasoning Information Ordering
E4	CORE	Test liquid level alarm sensing devices	Quality Control Analysis Monitoring	Deductive Reasoning Information Ordering
E4	CORE	Test loudspeakers	Quality Control Analysis Monitoring	Deductive Reasoning Information Ordering
E4	CORE	Test microphone control stations	Quality Control Analysis Monitoring	Deductive Reasoning Information Ordering

E5	CORE	Test pressure alarm sensing devices	<i>Quality Control Analysis Monitoring</i>	<i>Deductive Reasoning Information Ordering</i>
E4	CORE	Test security alarm sensing devices	<i>Quality Control Analysis Monitoring</i>	<i>Deductive Reasoning Information Ordering</i>
E5	CORE	Test temperature alarm sensing devices	<i>Quality Control Analysis Monitoring</i>	<i>Deductive Reasoning Information Ordering</i>
E4	CORE	Troubleshoot loudspeakers	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E4	CORE	Troubleshoot microphone control stations	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E4	CORE	Un-rig shore telephone lines	<i>Equipment Maintenance Installation</i>	<i>Finger Dexterity Manual Dexterity</i>

ELECTRONIC NAVIGATION SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Clean dummy log circuits	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Clean Global Positioning Systems (GPS)	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Clean gyrocompass systems	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Clean inertial navigation systems	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Clean navigation sonar systems	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Clean radar systems	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Clean rodimeters	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Problem Sensitivity</i>
E5	CORE	Clean speed and distance transmitters	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Clean synchro signal amplifiers	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Clean Voyage Management Systems (VMS)	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Un-rig portable commercial radar equipment	<i>Installation Management of Material Resources</i>	<i>Manual Dexterity Finger Dexterity</i>
E5	CORE	Enter navigation and voyage plans into Voyage Management Systems (VMS)	<i>Critical Thinking Operation and Control</i>	<i>Information Ordering Near Vision</i>
E4	CORE	Inspect rodimeters	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Problem Sensitivity</i>
E5	CORE	Inspect speed and distance transmitters	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Problem Sensitivity</i>
E4	CORE	Inspect Voyage Management Systems (VMS)	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Problem Sensitivity</i>

E4	CORE	Interpret fathometer displays	<i>Complex Problem Solving Critical Thinking</i>	<i>Deductive Reasoning Perceptual Speed</i>
E5	CORE	Interpret inertial navigation system data	<i>Complex Problem Solving Critical Thinking</i>	<i>Deductive Reasoning Mathematical Reasoning</i>
E5	CORE	Interpret radar displays	<i>Complex Problem Solving Critical Thinking</i>	<i>Deductive Reasoning Perceptual Speed</i>
E4	CORE	Lubricate synchro signal amplifier components	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Control Precision</i>
E4	CORE	Operate dummy log circuits	<i>Operation and Control Systems Analysis</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Operate fathometers	<i>Operation and Control Systems Analysis</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Operate Global Positioning Systems (GPS)	<i>Operation and Control Systems Analysis</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Operate inertial navigation systems	<i>Operation and Control Systems Analysis</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Operate navigation sonar systems	<i>Operation and Control Systems Analysis</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Operate radar systems	<i>Operation and Control Systems Analysis</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Operate Voyage Management Systems (VMS)	<i>Operation and Control Systems Analysis</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Record fathometer soundings	<i>Writing Critical Thinking</i>	<i>Written Expression Information Ordering</i>
E4	CORE	Rig portable commercial radar equipment	<i>Equipment Selection Critical Thinking</i>	<i>Selective Attention Written Comprehension</i>

GENERAL ELECTRICAL SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Adjust ship's entertainment systems	<i>Operation Monitoring Systems Analysis</i>	<i>Deductive Reasoning Manual Dexterity</i>
E4	CORE	Clean aldis lamps	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Clean Central Atmosphere Monitoring System (CAMS) equipment	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Clean chill water indicating systems	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Clean data transmission systems	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Problem Sensitivity</i>
E5	CORE	Clean flow meter systems	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Clean internal frequency standards	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Clean mast position indication systems	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Problem Sensitivity</i>

E4	CORE	Clean mini-combined units	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E4	CORE	Clean pressure sensing devices	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E4	CORE	Clean ship's entertainment systems	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E4	CORE	Clean synchro repeater systems	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E5	CORE	Clean Tank Level Indicator (TLI) systems	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E4	CORE	Clean temperature monitoring systems	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E4	CORE	Clean valve control systems	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E4	CORE	Clean valve position indicating systems	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E4	CORE	Clean ventilation airflow indication systems	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E4	CORE	Inspect aldis lamps	<i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Problem Sensitivity</i>
E4	CORE	Inspect mast position indication systems	<i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Problem Sensitivity</i>
E4	CORE	Inspect ship's entertainment systems	<i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Problem Sensitivity</i>
E5	CORE	Inspect Tank Level Indicator (TLI) systems	<i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Problem Sensitivity</i>
E4	CORE	Inspect temperature monitoring systems	<i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Problem Sensitivity</i>
E4	CORE	Inspect valve control systems	<i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Problem Sensitivity</i>
E4	CORE	Inspect valve position indicating systems	<i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Problem Sensitivity</i>
E4	CORE	Inspect ventilation airflow indication systems	<i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Problem Sensitivity</i>
E4	CORE	Lubricate synchro repeater system components	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Control Precision</i>
E4	CORE	Lubricate valve control system components	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Control Precision</i>
E4	CORE	Operate aldis lamps	<i>Operation and Control</i> <i>Systems Analysis</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E4	CORE	Operate Central Atmosphere Monitoring System (CAMS) equipment	<i>Operation and Control</i> <i>Systems Analysis</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E4	CORE	Operate internal frequency standards	<i>Operation and Control</i> <i>Systems Analysis</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E4	CORE	Operate valve control systems	<i>Operation and Control</i> <i>Systems Analysis</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>

E4	CORE	Test ship's entertainment systems	<i>Quality Control Analysis Monitoring</i>	<i>Deductive Reasoning Information Ordering</i>
E5	CORE	Troubleshoot aldis lamps	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>

INFORMATION SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Clean Information System (IS) components	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Inventory Local Area Network (LAN) hardware	<i>Management of Material Resources Mathematics</i>	<i>Problem Sensitivity Written Comprehension</i>
E4	CORE	Operate backup software	<i>Operation and Control Systems Analysis</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Operate Government Off-The-Shelf (GOTS) software	<i>Operation and Control Systems Analysis</i>	<i>Manual Dexterity Problem Sensitivity</i>
E5	CORE	Optimize Local Area Network (LAN) traffic	<i>Critical Thinking Judgment and Decision Making</i>	<i>Deductive Reasoning Information Ordering</i>

MISCELLANEOUS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Clean cathodic protection (Zincs)	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Problem Sensitivity</i>
E6	CORE	Decode signals using Allied Tactical Publications (ATP)	<i>Critical Thinking Systems Analysis</i>	<i>Mathematical Reasoning Problem Sensitivity</i>
E6	CORE	Encode signals using Allied Tactical Publications (ATP)	<i>Critical Thinking Systems Analysis</i>	<i>Mathematical Reasoning Problem Sensitivity</i>
E4	CORE	Hoist flags, pennants, and day shapes	<i>Critical Thinking Equipment Selection</i>	<i>Manual Dexterity Speed of Limb Movement</i>
E4	CORE	Inspect cathodic protection (Zincs)	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Problem Sensitivity</i>
E4	CORE	Maintain chronometers	<i>Management of Material Resources Reading Comprehension</i>	<i>Information Ordering Written Expression</i>
E5	CORE	Maintain entertainment media inventories	<i>Management of Material Resources Reading Comprehension</i>	<i>Information Ordering Written Expression</i>
E4	CORE	Operate Night Vision Devices (NVD)	<i>Operation and Control Systems Analysis</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Render honors	<i>Critical Thinking Judgment and Decision Making</i>	<i>Response Orientation Speech Recognition</i>
E4	CORE	Replace cathodic protection (Zincs)	<i>Equipment Maintenance Installation</i>	<i>Static Strength Stamina</i>
E4	CORE	Rig bridge for dive	<i>Equipment Selection Critical Thinking</i>	<i>Selective Attention Written Comprehension</i>
E4	CORE	Rig bridge for in port	<i>Equipment Selection Critical Thinking</i>	<i>Selective Attention Written Comprehension</i>
E4	CORE	Rig bridge for surface	<i>Equipment Selection Critical Thinking</i>	<i>Selective Attention Written Comprehension</i>

E4	CORE	Supervise colors	<i>Management of Personnel Resources</i> <i>Coordination</i>	<i>Information Ordering</i> <i>Time Sharing</i>
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NAVIGATION AND PILOTING

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Advise Officer of the Deck (OOD) of chain scope required for anchoring	<i>Critical Thinking</i> <i>Mathematics</i>	<i>Oral Expression</i> <i>Speech Clarity</i>
E5	CORE	Advise Officer of the Deck (OOD) of ocean depth and bottom while anchoring	<i>Speaking</i> <i>Mathematics</i>	<i>Oral Expression</i> <i>Speech Clarity</i>
E5	CORE	Advise Officer of the Deck (OOD) on the Rules of the Road	<i>Speaking</i> <i>Learning Strategies</i>	<i>Oral Expression</i> <i>Speech Clarity</i>
E4	CORE	Calculate position relative to Plan of Intended Movement (PIM)	<i>Mathematics</i> <i>Critical Thinking</i>	<i>Deductive Reasoning</i> <i>Mathematical Reasoning</i>
E4	CORE	Calculate set and drift	<i>Mathematics</i> <i>Science</i>	<i>Deductive Reasoning</i> <i>Mathematical Reasoning</i>
E5	CORE	Calculate tide effects on ship's movements	<i>Science</i> <i>Critical Thinking</i>	<i>Inductive Reasoning</i> <i>Mathematical Reasoning</i>
E5	CORE	Calculate wind effects on ship's movements	<i>Science</i> <i>Critical Thinking</i>	<i>Inductive Reasoning</i> <i>Mathematical Reasoning</i>
E4	CORE	Compare fathometer readings with charts	<i>Mathematics</i> <i>Critical Thinking</i>	<i>Mathematical Reasoning</i> <i>Written Comprehension</i>
E4	CORE	Compare gyrocompass and inertial headings	<i>Quality Control Analysis</i> <i>Mathematics</i>	<i>Mathematical Reasoning</i> <i>Written Comprehension</i>
E4	CORE	Compute advance and transfer	<i>Mathematics</i> <i>Critical Thinking</i>	<i>Mathematical Reasoning</i> <i>Problem Sensitivity</i>
E4	CORE	Compute azimuths to the sun	<i>Mathematics</i> <i>Critical Thinking</i>	<i>Mathematical Reasoning</i> <i>Problem Sensitivity</i>
E4	CORE	Compute course and speed made good	<i>Mathematics</i> <i>Critical Thinking</i>	<i>Mathematical Reasoning</i> <i>Problem Sensitivity</i>
E4	CORE	Compute current direction and speed	<i>Mathematics</i> <i>Critical Thinking</i>	<i>Mathematical Reasoning</i> <i>Problem Sensitivity</i>
E6	CORE	Compute position uncertainty using fix expansion method	<i>Mathematics</i> <i>Critical Thinking</i>	<i>Mathematical Reasoning</i> <i>Problem Sensitivity</i>
E6	CORE	Compute radar repeater bearings and range errors	<i>Mathematics</i> <i>Critical Thinking</i>	<i>Mathematical Reasoning</i> <i>Problem Sensitivity</i>
E5	CORE	Conduct strike group operations	<i>Complex Problem Solving</i> <i>Judgment and Decision Making</i>	<i>Deductive Reasoning</i> <i>Written Comprehension</i>
E4	CORE	Convert between relative bearings and true bearings	<i>Mathematics</i> <i>Critical Thinking</i>	<i>Mathematical Reasoning</i> <i>Number Facility</i>
E4	CORE	Correlate observed celestial data with air almanacs	<i>Critical Thinking</i> <i>Mathematics</i>	<i>Mathematical Reasoning</i> <i>Information Ordering</i>
E4	CORE	Correlate speed, time, and distance	<i>Critical Thinking</i> <i>Mathematics</i>	<i>Mathematical Reasoning</i> <i>Information Ordering</i>
E4	CORE	Determine gyrocompass error	<i>Critical Thinking</i> <i>Judgment and Decision Making</i>	<i>Deductive Reasoning</i> <i>Written Comprehension</i>

E5	CORE	Determine latitude and longitude from plotted positions on nautical charts	<i>Critical Thinking</i>	<i>Deductive Reasoning</i>
E5	CORE	Evaluate radar information	<i>Judgment and Decision Making</i>	<i>Written Comprehension</i>
E6	CORE	Extract navigation information from Operation Orders (OPORDS)	<i>Systems Evaluation</i> <i>Operation Monitoring</i>	<i>Selective Attention</i> <i>Inductive Reasoning</i>
E4	CORE	Fix ship's position using a running fix	<i>Reading Comprehension</i> <i>Active Learning</i>	<i>Written Comprehension</i> <i>Memorization</i>
E4	CORE	Fix ship's position using bearing and range to a single point	<i>Mathematics</i> <i>Critical Thinking</i>	<i>Number Facility</i> <i>Mathematical Reasoning</i>
E5	CORE	Fix ship's position using latitude and longitude	<i>Mathematics</i> <i>Critical Thinking</i>	<i>Number Facility</i> <i>Mathematical Reasoning</i>
E4	CORE	Fix ship's position using multiple soundings	<i>Mathematics</i> <i>Critical Thinking</i>	<i>Number Facility</i> <i>Mathematical Reasoning</i>
E5	CORE	Fix ship's position using radar range arcs	<i>Mathematics</i> <i>Critical Thinking</i>	<i>Number Facility</i> <i>Mathematical Reasoning</i>
E5	CORE	Fix ship's position using visual bearing lines	<i>Mathematics</i> <i>Critical Thinking</i>	<i>Number Facility</i> <i>Mathematical Reasoning</i>
E5	CORE	Identify allied flags and pennants	<i>Critical Thinking</i> <i>Judgment and Decision Making</i>	<i>Far Vision</i> <i>Visual Color Discrimination</i>
E4	CORE	Identify day markers	<i>Critical Thinking</i> <i>Judgment and Decision Making</i>	<i>Far Vision</i> <i>Visual Color Discrimination</i>
E4	CORE	Identify distress signals	<i>Critical Thinking</i> <i>Judgment and Decision Making</i>	<i>Far Vision</i> <i>Visual Color Discrimination</i>
E4	CORE	Identify National Ensign and Union Jack displays	<i>Critical Thinking</i> <i>Judgment and Decision Making</i>	<i>Far Vision</i> <i>Visual Color Discrimination</i>
E4	CORE	Identify navigational day shape displays	<i>Critical Thinking</i> <i>Judgment and Decision Making</i>	<i>Far Vision</i> <i>Visual Color Discrimination</i>
E4	CORE	Identify navigational light displays	<i>Critical Thinking</i> <i>Judgment and Decision Making</i>	<i>Far Vision</i> <i>Visual Color Discrimination</i>
E4	CORE	Identify range markers	<i>Critical Thinking</i> <i>Judgment and Decision Making</i>	<i>Far Vision</i> <i>Visual Color Discrimination</i>
E4	CORE	Identify reduced visibility situations	<i>Critical Thinking</i> <i>Judgment and Decision Making</i>	<i>Deductive Reasoning</i> <i>Problem Sensitivity</i>
E4	CORE	Identify signal flags and pennant displays	<i>Critical Thinking</i> <i>Judgment and Decision Making</i>	<i>Far Vision</i> <i>Visual Color Discrimination</i>
E4	CORE	Identify visual storm warning signals	<i>Critical Thinking</i> <i>Judgment and Decision Making</i>	<i>Far Vision</i> <i>Visual Color Discrimination</i>
E4	CORE	Interpret bell signals	<i>Complex Problem Solving</i> <i>Critical Thinking</i>	<i>Deductive Reasoning</i> <i>Auditory Attention</i>
E4	CORE	Interpret cloud formations and heights	<i>Complex Problem Solving</i> <i>Critical Thinking</i>	<i>Deductive Reasoning</i> <i>Far Vision</i>
E4	CORE	Interpret gong signals	<i>Complex Problem Solving</i> <i>Critical Thinking</i>	<i>Deductive Reasoning</i> <i>Auditory Attention</i>
E4	CORE	Interpret whistle signals	<i>Complex Problem Solving</i> <i>Critical Thinking</i>	<i>Deductive Reasoning</i> <i>Auditory Attention</i>

E6	CORE	Recommend paths for storm evasion	<i>Critical Thinking</i> <i>Judgment and Decision Making</i>	<i>Oral Expression</i> <i>Perceptual Speed</i>
E4	CORE	Monitor harbor common circuits	<i>Active Listening</i> <i>Management of Material Resources</i>	<i>Auditory Attention</i> <i>Information Ordering</i>
E5	CORE	Obtain celestial data by marine sextant	<i>Mathematics</i> <i>Management of Material Resources</i>	<i>Far Vision</i> <i>Information Ordering</i>
E4	CORE	Obtain celestial data from periscope	<i>Mathematics</i> <i>Management of Material Resources</i>	<i>Far Vision</i> <i>Information Ordering</i>
E4	CORE	Obtain visual bearings using a periscope	<i>Mathematics</i> <i>Management of Material Resources</i>	<i>Far Vision</i> <i>Information Ordering</i>
E4	CORE	Obtain visual bearings using an alidade	<i>Mathematics</i> <i>Management of Material Resources</i>	<i>Far Vision</i> <i>Information Ordering</i>
E4	CORE	Operate navigation lights	<i>Operation and Control</i> <i>Systems Analysis</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E4	CORE	Operate Very High Frequency (VHF) equipment while on surface	<i>Operation and Control</i> <i>Systems Analysis</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E4	CORE	Plot locations and probable paths of storm centers	<i>Critical Thinking</i> <i>Science</i>	<i>Written Expression</i> <i>Mathematical Reasoning</i>
E4	CORE	Plot ship's position during navigation details	<i>Critical Thinking</i> <i>Mathematics</i>	<i>Written Expression</i> <i>Mathematical Reasoning</i>
E5	CORE	Plot ship's position during open ocean navigation	<i>Critical Thinking</i> <i>Mathematics</i>	<i>Written Expression</i> <i>Mathematical Reasoning</i>
E4	CORE	Plot weather message information	<i>Critical Thinking</i> <i>Mathematics</i>	<i>Written Expression</i> <i>Mathematical Reasoning</i>
E4	CORE	Predict ship's future positions	<i>Mathematics</i> <i>Critical Thinking</i>	<i>Mathematical Reasoning</i> <i>Information Ordering</i>
E4	CORE	Recommend courses for man overboard recoveries	<i>Complex Problem Solving</i> <i>Speaking</i>	<i>Deductive Reasoning</i> <i>Information Ordering</i>
E4	CORE	Recommend courses for precision anchoring	<i>Complex Problem Solving</i> <i>Speaking</i>	<i>Deductive Reasoning</i> <i>Information Ordering</i>
E4	CORE	Set up parallel motion protractors	<i>Complex Problem Solving</i> <i>Equipment Maintenance</i>	<i>Finger Dexterity</i> <i>Near Vision</i>
E4	CORE	Sight and report visual contacts	<i>Complex Problem Solving</i> <i>Speaking</i>	<i>Visual Color Discrimination</i> <i>Oral Expression</i>
E4	CORE	Sound danger signals	<i>Equipment Selection</i> <i>Critical Thinking</i>	<i>Rate Control</i> <i>Finger Dexterity</i>
E4	CORE	Sound ship's bells and gongs	<i>Equipment Selection</i> <i>Critical Thinking</i>	<i>Rate Control</i> <i>Finger Dexterity</i>
E4	CORE	Sound ship's whistles	<i>Equipment Selection</i> <i>Critical Thinking</i>	<i>Rate Control</i> <i>Finger Dexterity</i>

POWER GENERATION AND DISTRIBUTION SYSTEMS

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Adjust Motor Generators (MG)	<i>Operation Monitoring</i> <i>Systems Analysis</i>	<i>Deductive Reasoning</i> <i>Manual Dexterity</i>
E5	CORE	Adjust voltage regulators	<i>Operation Monitoring</i> <i>Systems Analysis</i>	<i>Deductive Reasoning</i> <i>Manual Dexterity</i>

E4	CORE	Align Action Cutout (ACO) switchboards	<i>Equipment Maintenance</i> <i>Operation and Control</i>	<i>Manual Dexterity</i> <i>Rate Control</i>
E4	CORE	Align Interior Communications (IC) switchboards	<i>Equipment Maintenance</i> <i>Operation and Control</i>	<i>Manual Dexterity</i> <i>Rate Control</i>
E4	CORE	Band cables	<i>Repairing</i> <i>Equipment Maintenance</i>	<i>Manual Dexterity</i> <i>Visualization</i>
E4	CORE	Clean Action Cutout (ACO) switchboards	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E4	CORE	Clean cables	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E4	CORE	Clean Interior Communications (IC) switchboards	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E4	CORE	Clean power supplies	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E5	CORE	Clean transformers	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E5	CORE	Clean voltage regulators	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E5	CORE	Inspect voltage regulators	<i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Problem Sensitivity</i>
E4	CORE	Operate Action Cutout (ACO) switchboards	<i>Operation and Control</i> <i>Systems Analysis</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E4	CORE	Operate Automatic Bus Transfers (ABT)	<i>Operation and Control</i> <i>Systems Analysis</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E4	CORE	Operate Interior Communications (IC) switchboards	<i>Operation and Control</i> <i>Systems Analysis</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E4	CORE	Operate Manual Bus Transfers (MBT)	<i>Operation and Control</i> <i>Systems Analysis</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E4	CORE	Operate Motor Generators (MG)	<i>Operation and Control</i> <i>Systems Analysis</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>

SHIP CONTROL SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Clean Ballast Control Panels (BCP)	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E4	CORE	Clean depth sensing systems	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E4	CORE	Clean Ship's Control Panels (SCP)	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E4	CORE	Clean ship's control systems	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E4	CORE	Operate depth sensing systems	<i>Operation and Control</i> <i>Systems Analysis</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E5	CORE	Operate Ship's Control Panels (SCP)	<i>Operation and Control</i> <i>Systems Analysis</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E4	CORE	Operate ship's control systems	<i>Operation and Control</i> <i>Systems Analysis</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>

STRATEGIC WEAPONS SUPPORT SYSTEMS

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Clean hovering systems	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E4	CORE	Clean missile compensation systems	<i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E4	CORE	Inspect missile compensation systems	<i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Problem Sensitivity</i>

Job Title**Submarine Navigation Technician****Job Code****001187****Job Family**

Installation, Maintenance, and Repair

NOC

4900-2093.00

Short Title (30 Characters)

SUBMARINE NAVIGATION TEC

Short Title (10 Characters)

SSNAV TEC

Pay Plan

Enlisted

Career Field

ET(V)

Proficiency Level

A/J

Other Relationships and Rules:

NECs may include 14GM, 14NM, 14NO, 14NP, 14TK, 14XO, and 14XM

Job Description

Submarine Navigation Technicians maintain, troubleshoot, and repair electronic equipment used for detection, tracking, recognition, and identification of maritime vessels. They operate and maintain radar systems, interior communications circuits, Voyage Management Systems (VMS), alarm systems, ship's control stations, entertainment systems, gyrocompasses, Central Atmosphere Monitoring Systems (CAMS), liquid level detection and tank level indication circuits, flowmeters, pressure and temperature sensing circuits, valve position indicators, hovering systems, and missile compensation systems. They read and interpret schematics and block diagrams; apply general working knowledge of electricity and electronics to repair electrical/electronic cables and connectors; localize malfunctions and repair or replace faulty parts or subassemblies; align, adjust, calibrate, and perform corrective maintenance on navigation equipment; supervise navigation division maintenance, draft naval messages, develop navigation divisional watch bills, maintain navigation division records. Submarine Navigation Technicians work independent and train Submarine Navigation Operators.

DoD Relationship*Title and Group:*

Navigation, Communication, and Countermeasure, N.E.C
110

Code and Area:

110200
11

O*NET Relationship*Title and SOC Code:*

Electrical and Electronics Installers and Repairers, Transportation Equipment
49-2093.00

Name and Family Code:

Installation, Maintenance, and Repair
49

ADMINISTRATION**Paygrade**

E5

Task Type

CORE

Task Statements

Analyze schematic diagrams

Skills

Reading Comprehension
Complex Problem Solving

Abilities

Inductive Reasoning
Problem Sensitivity

E5

CORE

Analyze wiring diagrams

Reading Comprehension
Systems Analysis

Inductive Reasoning
Problem Sensitivity

E5

CORE

Collect navigation equipment performance data

Quality Control Analysis
Systems Evaluation

Number Facility
Problem Sensitivity

E4

CORE

Conduct navigation pre-underway checks

Complex Problem Solving
Critical Thinking

Problem Sensitivity
Written Comprehension

E5

CORE

Conduct Strategic Weapons System (SWS) strategic navigation subsystem advanced operations

Operation and Control
Equipment Maintenance

Deductive Reasoning
Problem Sensitivity

E5

CORE

Create Quality Assurance (QA) packages

Quality Control Analysis
Reading Comprehension

Oral Expression
Originality

E4

CORE

Draw schematic diagrams

Technology Design
Operation and Control

Manual Dexterity
Information Ordering

E5

CORE

Draw wiring diagrams

Technology Design
Operation and Control

Manual Dexterity
Information Ordering

E4

CORE

Interpret blueprints

Complex Problem Solving
Critical Thinking

Deductive Reasoning
Written Comprehension

E5

CORE

Interpret information books

Complex Problem Solving
Critical Thinking

Deductive Reasoning
Written Comprehension

E4

CORE

Interpret schematic diagrams

Complex Problem Solving
Critical Thinking

Deductive Reasoning
Written Comprehension

E5

CORE

Maintain Strategic Weapons System (SWS) data packages

Management of Material Resources
Reading Comprehension

Information Ordering
Written Expression

E4	CORE	Maintain Strategic Weapons System (SWS) logs	<i>Management of Material Resources</i>	<i>Information Ordering</i>
			<i>Reading Comprehension</i>	<i>Written Expression</i>
E5	CORE	Prepare navigation records for shipment	<i>Reading Comprehension</i>	<i>Written Expression</i>
			<i>Complex Problem Solving</i>	<i>Information Ordering</i>
E5	CORE	Prepare Trouble and Failure Reports (TFR)	<i>Reading Comprehension</i>	<i>Written Expression</i>
			<i>Complex Problem Solving</i>	<i>Information Ordering</i>
E4	CORE	Review Hazardous Material (HAZMAT) Users Guides (HMUG)	<i>Reading Comprehension</i>	<i>Written Comprehension</i>
			<i>Critical Thinking</i>	<i>Problem Sensitivity</i>
E6	CORE	Review blueprints for accuracy	<i>Reading Comprehension</i>	<i>Written Comprehension</i>
			<i>Quality Control Analysis</i>	<i>Problem Sensitivity</i>
E6	CORE	Review systems diagram for accuracy	<i>Reading Comprehension</i>	<i>Written Comprehension</i>
			<i>Quality Control Analysis</i>	<i>Problem Sensitivity</i>

CHART PREPARATIONS

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Prepare ship's Plan of Intended Movement (PIM)	<i>Reading Comprehension</i>	<i>Written Expression</i>
			<i>Complex Problem Solving</i>	<i>Information Ordering</i>

COMMUNICATIONS AND ALARM SYSTEMS

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Adjust alarm switchboards	<i>Operation Monitoring</i>	<i>Deductive Reasoning</i>
			<i>Systems Analysis</i>	<i>Manual Dexterity</i>
E5	CORE	Adjust amplified communication systems	<i>Operation Monitoring</i>	<i>Deductive Reasoning</i>
			<i>Systems Analysis</i>	<i>Manual Dexterity</i>
E5	CORE	Adjust central amplifier systems	<i>Operation Monitoring</i>	<i>Deductive Reasoning</i>
			<i>Systems Analysis</i>	<i>Manual Dexterity</i>
E4	CORE	Adjust loudspeakers	<i>Operation Monitoring</i>	<i>Deductive Reasoning</i>
			<i>Systems Analysis</i>	<i>Manual Dexterity</i>
E5	CORE	Clean pressure alarm sensing devices	<i>Equipment Maintenance</i>	<i>Manual Dexterity</i>
			<i>Management of Material Resources</i>	<i>Problem Sensitivity</i>
E4	CORE	Cross-connect sound-powered telephone circuits	<i>Systems Analysis</i>	<i>Information Ordering</i>
			<i>Equipment Maintenance</i>	<i>Problem Sensitivity</i>
E4	CORE	Inspect alarm switchboards	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Problem Sensitivity</i>
E4	CORE	Inspect amplified communication systems	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Problem Sensitivity</i>
E4	CORE	Inspect central amplifier systems	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Problem Sensitivity</i>
E4	CORE	Inspect intercommunicating stations	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Problem Sensitivity</i>
E4	CORE	Inspect liquid level alarm sensing devices	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Problem Sensitivity</i>
E4	CORE	Inspect loudspeakers	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Problem Sensitivity</i>
E4	CORE	Inspect microphone control stations	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Problem Sensitivity</i>

E5	CORE	Inspect pressure alarm sensing devices	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Problem Sensitivity</i>
E4	CORE	Inspect security alarm sensing devices	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Problem Sensitivity</i>
E4	CORE	Inspect shore telephone systems	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Problem Sensitivity</i>
E4	CORE	Inspect sound-powered telephone systems	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Problem Sensitivity</i>
E4	CORE	Inspect temperature alarm sensing devices	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Problem Sensitivity</i>
E5	CORE	Install Portable Ship Control Units (PSCU)	<i>Installation</i>	<i>Manual Dexterity</i>
			<i>Equipment Selection</i>	<i>Finger Dexterity</i>
E4	CORE	Isolate sound-powered telephone circuits	<i>Troubleshooting</i>	<i>Problem Sensitivity</i>
			<i>Complex Problem Solving</i>	<i>Information Ordering</i>
E4	CORE	Program shore telephone systems	<i>Operation and Control</i>	<i>Finger Dexterity</i>
			<i>Management of Material Resources</i>	<i>Written Comprehension</i>
E5	CORE	Remove Portable Ship Control Units (PSCU)	<i>Installation</i>	<i>Manual Dexterity</i>
			<i>Equipment Maintenance</i>	<i>Spatial Orientation</i>
E5	CORE	Repair alarm switchboards	<i>Equipment Maintenance</i>	<i>Finger Dexterity</i>
			<i>Repairing</i>	<i>Problem Sensitivity</i>
E5	CORE	Repair amplified communication systems	<i>Equipment Maintenance</i>	<i>Finger Dexterity</i>
			<i>Repairing</i>	<i>Problem Sensitivity</i>
E5	CORE	Repair central amplifier systems	<i>Equipment Maintenance</i>	<i>Finger Dexterity</i>
			<i>Repairing</i>	<i>Problem Sensitivity</i>
E4	CORE	Repair intercommunicating stations	<i>Equipment Maintenance</i>	<i>Finger Dexterity</i>
			<i>Repairing</i>	<i>Problem Sensitivity</i>
E4	CORE	Repair liquid level alarm sensing devices	<i>Equipment Maintenance</i>	<i>Finger Dexterity</i>
			<i>Repairing</i>	<i>Problem Sensitivity</i>
E4	CORE	Repair loudspeakers	<i>Equipment Maintenance</i>	<i>Finger Dexterity</i>
			<i>Repairing</i>	<i>Problem Sensitivity</i>
E4	CORE	Repair microphone control stations	<i>Equipment Maintenance</i>	<i>Finger Dexterity</i>
			<i>Repairing</i>	<i>Problem Sensitivity</i>
E5	CORE	Repair Portable Ship Control Units (PSCU)	<i>Equipment Maintenance</i>	<i>Finger Dexterity</i>
			<i>Repairing</i>	<i>Problem Sensitivity</i>
E4	CORE	Repair pressure alarm sensing devices	<i>Equipment Maintenance</i>	<i>Finger Dexterity</i>
			<i>Repairing</i>	<i>Problem Sensitivity</i>
E5	CORE	Repair security alarm sensing devices	<i>Equipment Maintenance</i>	<i>Finger Dexterity</i>
			<i>Repairing</i>	<i>Problem Sensitivity</i>
E4	CORE	Repair shore telephone systems	<i>Equipment Maintenance</i>	<i>Finger Dexterity</i>
			<i>Repairing</i>	<i>Problem Sensitivity</i>
E5	CORE	Repair sound-powered telephone systems	<i>Equipment Maintenance</i>	<i>Finger Dexterity</i>
			<i>Repairing</i>	<i>Problem Sensitivity</i>
E4	CORE	Repair temperature alarm sensing devices	<i>Equipment Maintenance</i>	<i>Finger Dexterity</i>
			<i>Repairing</i>	<i>Problem Sensitivity</i>
E4	CORE	Replace intercommunicating station components	<i>Equipment Maintenance</i>	<i>Control Precision</i>
			<i>Installation</i>	<i>Problem Sensitivity</i>

E4	CORE	Replace loudspeaker components	<i>Equipment Maintenance Installation</i>	<i>Control Precision Problem Sensitivity</i>
E4	CORE	Replace microphone control station components	<i>Equipment Maintenance Installation</i>	<i>Control Precision Problem Sensitivity</i>
E4	CORE	Test alarm switchboards	<i>Quality Control Analysis Monitoring</i>	<i>Deductive Reasoning Information Ordering</i>
E4	CORE	Test central amplifier systems	<i>Quality Control Analysis Monitoring</i>	<i>Deductive Reasoning Information Ordering</i>
E4	CORE	Test intercommunicating stations	<i>Quality Control Analysis Monitoring</i>	<i>Deductive Reasoning Information Ordering</i>
E4	CORE	Test liquid level alarm sensing devices	<i>Quality Control Analysis Monitoring</i>	<i>Deductive Reasoning Information Ordering</i>
E4	CORE	Test loudspeakers	<i>Quality Control Analysis Monitoring</i>	<i>Deductive Reasoning Information Ordering</i>
E4	CORE	Test microphone control stations	<i>Quality Control Analysis Monitoring</i>	<i>Deductive Reasoning Information Ordering</i>
E5	CORE	Test pressure alarm sensing devices	<i>Quality Control Analysis Monitoring</i>	<i>Deductive Reasoning Information Ordering</i>
E4	CORE	Test security alarm sensing devices	<i>Quality Control Analysis Monitoring</i>	<i>Deductive Reasoning Information Ordering</i>
E5	CORE	Test temperature alarm sensing devices	<i>Quality Control Analysis Monitoring</i>	<i>Deductive Reasoning Information Ordering</i>
E5	CORE	Troubleshoot alarm switchboards	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot amplified communication systems	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot central amplifier systems	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E4	CORE	Troubleshoot intercommunicating stations	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E4	CORE	Troubleshoot liquid level alarm sensing devices	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E4	CORE	Troubleshoot loudspeakers	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E4	CORE	Troubleshoot microphone control stations	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot Portable Ship Control Units (PSCU)	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot pressure alarm sensing devices	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot security alarm sensing devices	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot shore telephone systems	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot sound-powered telephone systems	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>

E5	CORE	Troubleshoot temperature alarm-sensing devices <i>Complex Problem Solving</i> <i>Troubleshooting</i>	<i>Problem Sensitivity</i> <i>Deductive Reasoning</i>
E4	CORE	Un-rig shore telephone lines <i>Equipment Maintenance</i> <i>Installation</i>	<i>Finger Dexterity</i> <i>Manual Dexterity</i>

ELECTRONIC NAVIGATION SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Adjust navigation sonar systems	Operation Monitoring Systems Analysis	Deductive Reasoning Manual Dexterity
E5	CORE	Adjust radar systems	Operation Monitoring Systems Analysis	Deductive Reasoning Manual Dexterity
E5	CORE	Adjust synchro signal amplifiers	Operation Monitoring Systems Analysis	Deductive Reasoning Manual Dexterity
E4	CORE	Calibrate gyrocompass systems	Equipment Maintenance Operation and Control	Control Precision Perceptual Speed
E5	CORE	Calibrate inertial navigation systems	Equipment Maintenance Operation and Control	Control Precision Perceptual Speed
E4	CORE	Calibrate rodimeters	Equipment Maintenance Operation and Control	Control Precision Perceptual Speed
E5	CORE	Calibrate speed and distance transmitters	Equipment Maintenance Operation and Control	Control Precision Perceptual Speed
E4	CORE	Un-rig portable commercial radar equipment	Installation Management of Material Resources	Manual Dexterity Finger Dexterity
E5	CORE	Enter navigation and voyage plans into the Voyage Management System (VMS)	Critical Thinking Operation and Control	Information Ordering Near Vision
E5	CORE	Evaluate inertial navigation systems performance	Systems Evaluation Operation Monitoring	Selective Attention Deductive Reasoning
E4	CORE	Inspect dummy log circuits	Equipment Maintenance Quality Control Analysis	Near Vision Problem Sensitivity
E4	CORE	Inspect Global Positioning Systems (GPS)	Equipment Maintenance Quality Control Analysis	Near Vision Problem Sensitivity
E4	CORE	Inspect gyrocompass systems	Equipment Maintenance Quality Control Analysis	Near Vision Problem Sensitivity
E4	CORE	Inspect inertial navigation systems	Equipment Maintenance Quality Control Analysis	Near Vision Problem Sensitivity
E4	CORE	Inspect navigation sonar systems	Equipment Maintenance Quality Control Analysis	Near Vision Problem Sensitivity
E4	CORE	Inspect radar systems	Equipment Maintenance Quality Control Analysis	Near Vision Problem Sensitivity
E4	CORE	Inspect rodimeters	Equipment Maintenance Quality Control Analysis	Near Vision Problem Sensitivity
E5	CORE	Inspect speed and distance transmitters	Equipment Maintenance Quality Control Analysis	Near Vision Problem Sensitivity
E4	CORE	Inspect synchro signal amplifiers	Equipment Maintenance Quality Control Analysis	Near Vision Problem Sensitivity
E4	CORE	Inspect Voyage Management Systems (VMS)	Equipment Maintenance Quality Control Analysis	Near Vision Problem Sensitivity

E5	CORE	Interpret inertial navigation system data	<i>Complex Problem Solving Critical Thinking</i>	<i>Deductive Reasoning Mathematical Reasoning</i>
E5	CORE	Interpret radar displays	<i>Complex Problem Solving Critical Thinking</i>	<i>Deductive Reasoning Perceptual Speed</i>
E4	CORE	Lubricate synchro signal amplifier components	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Control Precision</i>
E4	CORE	Operate inertial navigation systems	<i>Operation and Control Systems Analysis</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Operate radar systems	<i>Operation and Control Systems Analysis</i>	<i>Manual Dexterity Problem Sensitivity</i>
E5	CORE	Repair dummy log circuits	<i>Equipment Maintenance Repairing</i>	<i>Finger Dexterity Problem Sensitivity</i>
E5	CORE	Repair Global Positioning Systems (GPS)	<i>Equipment Maintenance Repairing</i>	<i>Finger Dexterity Problem Sensitivity</i>
E5	CORE	Repair gyrocompass systems	<i>Equipment Maintenance Repairing</i>	<i>Finger Dexterity Problem Sensitivity</i>
E5	CORE	Repair inertial navigation systems	<i>Equipment Maintenance Repairing</i>	<i>Finger Dexterity Problem Sensitivity</i>
E5	CORE	Repair navigation sonar systems	<i>Equipment Maintenance Repairing</i>	<i>Finger Dexterity Problem Sensitivity</i>
E5	CORE	Repair radar systems	<i>Equipment Maintenance Repairing</i>	<i>Finger Dexterity Problem Sensitivity</i>
E4	CORE	Repair rodimeters	<i>Equipment Maintenance Repairing</i>	<i>Finger Dexterity Problem Sensitivity</i>
E5	CORE	Repair speed and distance transmitters	<i>Equipment Maintenance Repairing</i>	<i>Finger Dexterity Problem Sensitivity</i>
E5	CORE	Repair synchro signal amplifiers	<i>Equipment Maintenance Repairing</i>	<i>Finger Dexterity Problem Sensitivity</i>
E5	CORE	Repair Voyage Management Systems (VMS)	<i>Equipment Maintenance Repairing</i>	<i>Finger Dexterity Problem Sensitivity</i>
E4	CORE	Rig portable commercial radar equipment	<i>Equipment Selection Critical Thinking</i>	<i>Selective Attention Written Comprehension</i>
E5	CORE	Troubleshoot dummy log circuits	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot Global Positioning Systems (GPS)	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot gyrocompass systems	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot inertial navigation systems	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot navigation sonar systems	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot radar systems	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E4	CORE	Troubleshoot rodimeters	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>

E5	CORE	Troubleshoot speed and distance transmitters	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot synchro signal amplifiers	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot Voyage Management Systems (VMS)	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>

GENERAL ELECTRICAL SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Adjust Central Atmosphere Monitoring System (CAMS) equipment	<i>Operation Monitoring Systems Analysis</i>	<i>Deductive Reasoning Manual Dexterity</i>
E5	CORE	Adjust chill water indicating systems	<i>Operation Monitoring Systems Analysis</i>	<i>Deductive Reasoning Manual Dexterity</i>
E5	CORE	Adjust data transmission systems	<i>Operation Monitoring Systems Analysis</i>	<i>Deductive Reasoning Manual Dexterity</i>
E5	CORE	Adjust internal frequency standards	<i>Operation Monitoring Systems Analysis</i>	<i>Deductive Reasoning Manual Dexterity</i>
E5	CORE	Adjust mast position indication systems	<i>Operation Monitoring Systems Analysis</i>	<i>Deductive Reasoning Manual Dexterity</i>
E5	CORE	Adjust ship's entertainment systems	<i>Operation Monitoring Systems Analysis</i>	<i>Deductive Reasoning Manual Dexterity</i>
E4	CORE	Adjust synchro repeater systems	<i>Operation Monitoring Systems Analysis</i>	<i>Deductive Reasoning Manual Dexterity</i>
E4	CORE	Adjust valve control systems	<i>Operation Monitoring Systems Analysis</i>	<i>Deductive Reasoning Manual Dexterity</i>
E4	CORE	Adjust valve position indicating systems	<i>Operation Monitoring Systems Analysis</i>	<i>Deductive Reasoning Manual Dexterity</i>
E5	CORE	Adjust ventilation airflow indication systems	<i>Operation Monitoring Systems Analysis</i>	<i>Deductive Reasoning Manual Dexterity</i>
E5	CORE	Calibrate pressure sensing devices	<i>Equipment Maintenance Operation and Control</i>	<i>Control Precision Perceptual Speed</i>
E5	CORE	Calibrate temperature monitoring systems	<i>Equipment Maintenance Operation and Control</i>	<i>Control Precision Perceptual Speed</i>
E4	CORE	Clean pressure sensing devices	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Inspect Central Atmosphere Monitoring System (CAMS) equipment	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Problem Sensitivity</i>
E4	CORE	Inspect chill water indicating systems	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Problem Sensitivity</i>
E4	CORE	Inspect data transmission systems	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Problem Sensitivity</i>
E5	CORE	Inspect flowmeter systems	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Problem Sensitivity</i>
E4	CORE	Inspect internal frequency standards	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Problem Sensitivity</i>

E4	CORE	Inspect mast position indication systems	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Problem Sensitivity</i>
E4	CORE	Inspect mini-combined units	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Problem Sensitivity</i>
E4	CORE	Inspect pressure sensing devices	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Problem Sensitivity</i>
E4	CORE	Inspect synchro repeater systems	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Problem Sensitivity</i>
E5	CORE	Inspect Tank Level Indicator (TLI) systems	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Problem Sensitivity</i>
E4	CORE	Inspect temperature monitoring systems	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Problem Sensitivity</i>
E4	CORE	Inspect valve control systems	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Problem Sensitivity</i>
E4	CORE	Inspect valve position indicating systems	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Problem Sensitivity</i>
E4	CORE	Inspect ventilation airflow indication systems	<i>Equipment Maintenance</i>	<i>Near Vision</i>
			<i>Quality Control Analysis</i>	<i>Problem Sensitivity</i>
E4	CORE	Operate valve control systems	<i>Operation and Control</i>	<i>Manual Dexterity</i>
			<i>Systems Analysis</i>	<i>Problem Sensitivity</i>
E5	CORE	Repair aldis lamps	<i>Equipment Maintenance</i>	<i>Finger Dexterity</i>
			<i>Repairing</i>	<i>Problem Sensitivity</i>
E5	CORE	Repair Central Atmosphere Monitoring System (CAMS) equipment	<i>Equipment Maintenance</i>	<i>Finger Dexterity</i>
			<i>Repairing</i>	<i>Problem Sensitivity</i>
E5	CORE	Repair chill water indicating systems	<i>Equipment Maintenance</i>	<i>Finger Dexterity</i>
			<i>Repairing</i>	<i>Problem Sensitivity</i>
E5	CORE	Repair data transmission systems	<i>Equipment Maintenance</i>	<i>Finger Dexterity</i>
			<i>Repairing</i>	<i>Problem Sensitivity</i>
E5	CORE	Repair flowmeter systems	<i>Equipment Maintenance</i>	<i>Finger Dexterity</i>
			<i>Repairing</i>	<i>Problem Sensitivity</i>
E5	CORE	Repair internal frequency standards	<i>Equipment Maintenance</i>	<i>Finger Dexterity</i>
			<i>Repairing</i>	<i>Problem Sensitivity</i>
E5	CORE	Repair mast position indication systems	<i>Equipment Maintenance</i>	<i>Finger Dexterity</i>
			<i>Repairing</i>	<i>Problem Sensitivity</i>
E5	CORE	Repair mini-combined units	<i>Equipment Maintenance</i>	<i>Finger Dexterity</i>
			<i>Repairing</i>	<i>Problem Sensitivity</i>
E5	CORE	Repair pressure sensing devices	<i>Equipment Maintenance</i>	<i>Finger Dexterity</i>
			<i>Repairing</i>	<i>Problem Sensitivity</i>
E5	CORE	Repair ship's entertainment systems	<i>Equipment Maintenance</i>	<i>Finger Dexterity</i>
			<i>Repairing</i>	<i>Problem Sensitivity</i>
E4	CORE	Repair synchro repeater systems	<i>Equipment Maintenance</i>	<i>Finger Dexterity</i>
			<i>Repairing</i>	<i>Problem Sensitivity</i>
E5	CORE	Repair Tank Level Indicator (TLI) systems	<i>Equipment Maintenance</i>	<i>Finger Dexterity</i>
			<i>Repairing</i>	<i>Problem Sensitivity</i>
E5	CORE	Repair temperature monitoring systems	<i>Equipment Maintenance</i>	<i>Finger Dexterity</i>
			<i>Repairing</i>	<i>Problem Sensitivity</i>

E4	CORE	Repair valve control systems	<i>Equipment Maintenance Repairing</i>	<i>Finger Dexterity Problem Sensitivity</i>
E4	CORE	Repair valve position indicating systems	<i>Equipment Maintenance Repairing</i>	<i>Finger Dexterity Problem Sensitivity</i>
E5	CORE	Repair ventilation airflow indication systems	<i>Equipment Maintenance Repairing</i>	<i>Finger Dexterity Problem Sensitivity</i>
E5	CORE	Replace Central Atmosphere Monitoring System (CAMS) equipment components	<i>Equipment Maintenance Installation</i>	<i>Control Precision Problem Sensitivity</i>
E4	CORE	Replace navigation lights	<i>Equipment Maintenance Installation</i>	<i>Control Precision Problem Sensitivity</i>
E4	CORE	Test ship's entertainment systems	<i>Quality Control Analysis Monitoring</i>	<i>Deductive Reasoning Information Ordering</i>
E5	CORE	Troubleshoot aldis lamps	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot Central Atmosphere Monitoring System (CAMS) equipment	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot chill water indicating systems	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot data transmission systems	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot flow meter systems	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot internal frequency standards	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot mast position indication systems	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot mini-combined units	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot pressure sensing devices	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot ship's entertainment systems	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E4	CORE	Troubleshoot synchro repeater systems	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot Tank Level Indicator (TLI) systems	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot temperature monitoring systems	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E4	CORE	Troubleshoot valve control systems	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E4	CORE	Troubleshoot valve position indicating systems	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot ventilation airflow indication systems	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>

INFORMATION SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Configure applications software	<i>Programming</i> <i>Systems Analysis</i>	<i>Category Flexibility</i> <i>Deductive Reasoning</i>
E5	CORE	Configure file system security	<i>Programming</i> <i>Systems Analysis</i>	<i>Category Flexibility</i> <i>Deductive Reasoning</i>
E5	CORE	Configure Information System (IS) servers	<i>Programming</i> <i>Systems Analysis</i>	<i>Category Flexibility</i> <i>Deductive Reasoning</i>
E5	CORE	Configure network security tools	<i>Programming</i> <i>Systems Analysis</i>	<i>Category Flexibility</i> <i>Deductive Reasoning</i>
E5	CORE	Configure workstation software	<i>Programming</i> <i>Systems Analysis</i>	<i>Category Flexibility</i> <i>Deductive Reasoning</i>
E5	CORE	Establish Information System (IS) off-hull connectivity	<i>Programming</i> <i>Quality Control Analysis</i>	<i>Problem Sensitivity</i> <i>Response Orientation</i>
E5	CORE	Groom Information Systems (IS)	<i>Equipment Maintenance</i> <i>Technology Design</i>	<i>Problem Sensitivity</i> <i>Number Facility</i>
E5	CORE	Inspect Information System (IS) components	<i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Problem Sensitivity</i>
E4	CORE	Install computer components	<i>Installation</i> <i>Equipment Selection</i>	<i>Manual Dexterity</i> <i>Finger Dexterity</i>
E5	CORE	Install network components	<i>Installation</i> <i>Equipment Selection</i>	<i>Manual Dexterity</i> <i>Finger Dexterity</i>
E5	CORE	Interpret client software	<i>Complex Problem Solving</i> <i>Critical Thinking</i>	<i>Deductive Reasoning</i> <i>Written Comprehension</i>
E4	CORE	Load Government Off-The-Shelf (GOTS) server software	<i>Installation</i> <i>Equipment Maintenance</i>	<i>Information Ordering</i> <i>Deductive Reasoning</i>
E5	CORE	Maintain Information System (IS) records	<i>Management of Material Resources</i> <i>Reading Comprehension</i>	<i>Information Ordering</i> <i>Written Expression</i>
E5	CORE	Optimize Local Area Network (LAN) traffic	<i>Critical Thinking</i> <i>Judgment and Decision Making</i>	<i>Deductive Reasoning</i> <i>Information Ordering</i>
E5	CORE	Repair Information Systems (IS)	<i>Equipment Maintenance</i> <i>Repairing</i>	<i>Finger Dexterity</i> <i>Problem Sensitivity</i>
E5	CORE	Restore Information Systems (IS) using disaster recovery procedures	<i>Operations Analysis</i> <i>Complex Problem Solving</i>	<i>Information Ordering</i> <i>Written Comprehension</i>
E6	CORE	Review operating system safeguards	<i>Reading Comprehension</i> <i>Critical Thinking</i>	<i>Written Comprehension</i> <i>Problem Sensitivity</i>
E5	CORE	Safeguard operating systems	<i>Management of Material Resources</i> <i>Critical Thinking</i>	<i>Perceptual Speed</i> <i>Number Facility</i>
E4	CORE	Test computer systems	<i>Quality Control Analysis</i> <i>Monitoring</i>	<i>Deductive Reasoning</i> <i>Information Ordering</i>
E5	CORE	Troubleshoot Information Systems (IS)	<i>Complex Problem Solving</i> <i>Troubleshooting</i>	<i>Problem Sensitivity</i> <i>Deductive Reasoning</i>
E5	CORE	Update client and server relational databases	<i>Installation</i> <i>Operation and Control</i>	<i>Written Comprehension</i> <i>Information Ordering</i>

MISCELLANEOUS

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Conduct sound isolation surveys	<i>Quality Control Analysis Systems Evaluation</i>	<i>Inductive Reasoning Problem Sensitivity</i>
E4	CORE	Rig bridge for dive	<i>Equipment Selection Critical Thinking</i>	<i>Selective Attention Written Comprehension</i>
E4	CORE	Rig bridge for in port	<i>Equipment Selection Critical Thinking</i>	<i>Selective Attention Written Comprehension</i>
E4	CORE	Rig bridge for surface	<i>Equipment Selection Critical Thinking</i>	<i>Selective Attention Written Comprehension</i>

NAVIGATION AND PILOTING

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Correlate observed celestial data with air almanacs	<i>Critical Thinking Mathematics</i>	<i>Mathematical Reasoning Information Ordering</i>

POWER GENERATION AND DISTRIBUTION SYSTEMS

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Adjust Motor Generators (MG)	<i>Operation Monitoring Systems Analysis</i>	<i>Deductive Reasoning Manual Dexterity</i>
E5	CORE	Adjust power supplies	<i>Operation Monitoring Systems Analysis</i>	<i>Deductive Reasoning Manual Dexterity</i>
E5	CORE	Adjust voltage regulators	<i>Operation Monitoring Systems Analysis</i>	<i>Deductive Reasoning Manual Dexterity</i>
E4	CORE	Align Action Cutout (ACO) switchboards	<i>Equipment Maintenance Operation and Control</i>	<i>Manual Dexterity Rate Control</i>
E5	CORE	Calibrate switchboard meters	<i>Equipment Maintenance Operation and Control</i>	<i>Control Precision Perceptual Speed</i>
E4	CORE	Inspect Action Cutout (ACO) switchboards	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Problem Sensitivity</i>
E4	CORE	Inspect cables	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Problem Sensitivity</i>
E4	CORE	Inspect Interior Communications (IC) switchboards	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Problem Sensitivity</i>
E5	CORE	Inspect power supplies	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Problem Sensitivity</i>
E5	CORE	Inspect transformers	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Problem Sensitivity</i>
E5	CORE	Inspect voltage regulators	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Problem Sensitivity</i>
E4	CORE	Operate Action Cutout (ACO) switchboards	<i>Operation and Control Systems Analysis</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Operate Interior Communications (IC) switchboards	<i>Operation and Control Systems Analysis</i>	<i>Manual Dexterity Problem Sensitivity</i>
E5	CORE	Repair Action Cutout (ACO) switchboards	<i>Equipment Maintenance Repairing</i>	<i>Finger Dexterity Problem Sensitivity</i>

E4	CORE	Repair cables	<i>Equipment Maintenance Repairing</i>	<i>Finger Dexterity Problem Sensitivity</i>
E5	CORE	Repair Interior Communications (IC) switchboards	<i>Equipment Maintenance Repairing</i>	<i>Finger Dexterity Problem Sensitivity</i>
E5	CORE	Repair power supplies	<i>Equipment Maintenance Repairing</i>	<i>Finger Dexterity Problem Sensitivity</i>
E5	CORE	Repair transformers	<i>Equipment Maintenance Repairing</i>	<i>Finger Dexterity Problem Sensitivity</i>
E5	CORE	Repair voltage regulators	<i>Equipment Maintenance Repairing</i>	<i>Finger Dexterity Problem Sensitivity</i>
E5	CORE	Troubleshoot Action Cutout (ACO) switchboards	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E4	CORE	Troubleshoot cables	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot Interior Communications (IC) switchboards	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot power supplies	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot transformers	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot voltage regulators	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>

SHIP CONTROL SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Adjust Ballast Control Panels (BCP)	<i>Operation Monitoring Systems Analysis</i>	<i>Deductive Reasoning Manual Dexterity</i>
E5	CORE	Adjust depth sensing systems	<i>Operation Monitoring Systems Analysis</i>	<i>Deductive Reasoning Manual Dexterity</i>
E5	CORE	Adjust Ship's Control Panels (SCP)	<i>Operation Monitoring Systems Analysis</i>	<i>Deductive Reasoning Manual Dexterity</i>
E5	CORE	Adjust ship's control systems	<i>Operation Monitoring Systems Analysis</i>	<i>Deductive Reasoning Manual Dexterity</i>
E5	CORE	Calibrate depth sensing systems	<i>Equipment Maintenance Operation and Control</i>	<i>Control Precision Perceptual Speed</i>
E4	CORE	Inspect Ballast Control Panels (BCP)	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Problem Sensitivity</i>
E4	CORE	Inspect depth sensing systems	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Problem Sensitivity</i>
E4	CORE	Inspect Ship's Control Panels (SCP)	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Problem Sensitivity</i>
E4	CORE	Inspect ship's control systems	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Problem Sensitivity</i>
E5	CORE	Install depth sensing system components	<i>Installation Equipment Selection</i>	<i>Manual Dexterity Finger Dexterity</i>
E5	CORE	Operate Ballast Control Panels (BCP)	<i>Operation and Control Systems Analysis</i>	<i>Manual Dexterity Problem Sensitivity</i>

E5	CORE	Operate Ship's Control Panels (SCP)	<i>Operation and Control Systems Analysis</i>	<i>Manual Dexterity Problem Sensitivity</i>
E4	CORE	Operate ship's control systems	<i>Operation and Control Systems Analysis</i>	<i>Manual Dexterity Problem Sensitivity</i>
E5	CORE	Remove depth sensing system components	<i>Installation Equipment Maintenance</i>	<i>Manual Dexterity Spatial Orientation</i>
E5	CORE	Repair Ballast Control Panels (BCP)	<i>Equipment Maintenance Repairing</i>	<i>Finger Dexterity Problem Sensitivity</i>
E5	CORE	Repair depth sensing systems	<i>Equipment Maintenance Repairing</i>	<i>Finger Dexterity Problem Sensitivity</i>
E4	CORE	Repair ship's angle indicator systems	<i>Equipment Maintenance Repairing</i>	<i>Finger Dexterity Problem Sensitivity</i>
E5	CORE	Repair Ship's Control Panels (SCP)	<i>Equipment Maintenance Repairing</i>	<i>Finger Dexterity Problem Sensitivity</i>
E5	CORE	Repair ship's control systems	<i>Equipment Maintenance Repairing</i>	<i>Finger Dexterity Problem Sensitivity</i>
E5	CORE	Troubleshoot Ballast Control Panels (BCP)	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot depth sensing systems	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E4	CORE	Troubleshoot ship's angle indicator systems	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot Ship's Control Panels (SCP)	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>
E5	CORE	Troubleshoot ship's control systems	<i>Complex Problem Solving Troubleshooting</i>	<i>Problem Sensitivity Deductive Reasoning</i>

STRATEGIC WEAPONS SUPPORT SYSTEMS

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Adjust hovering systems	<i>Operation Monitoring Systems Analysis</i>	<i>Deductive Reasoning Manual Dexterity</i>
E5	CORE	Calibrate hovering systems	<i>Equipment Maintenance Operation and Control</i>	<i>Control Precision Perceptual Speed</i>
E5	CORE	Calibrate missile compensation systems	<i>Equipment Maintenance Operation and Control</i>	<i>Control Precision Perceptual Speed</i>
E4	CORE	Inspect hovering systems	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Problem Sensitivity</i>
E4	CORE	Inspect missile compensation systems	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Problem Sensitivity</i>
E5	CORE	Operate hovering systems	<i>Operation and Control Systems Analysis</i>	<i>Manual Dexterity Problem Sensitivity</i>
E5	CORE	Operate missile compensation systems	<i>Operation and Control Systems Analysis</i>	<i>Manual Dexterity Problem Sensitivity</i>
E5	CORE	Repair hovering systems	<i>Equipment Maintenance Repairing</i>	<i>Finger Dexterity Problem Sensitivity</i>
E5	CORE	Repair missile compensation systems	<i>Equipment Maintenance Repairing</i>	<i>Finger Dexterity Problem Sensitivity</i>

E5	CORE	Troubleshoot hovering systems	<i>Complex Problem Solving</i> <i>Troubleshooting</i>	<i>Problem Sensitivity</i> <i>Deductive Reasoning</i>
E5	CORE	Troubleshoot missile compensation systems	<i>Complex Problem Solving</i> <i>Troubleshooting</i>	<i>Problem Sensitivity</i> <i>Deductive Reasoning</i>

Job Title**Submarine Navigation Manager****Job Code****001192****Job Family**

Installation, Maintenance, and Repair

NOC

4900-1011.00

Short Title (30 Characters)

SUBMARINE NAVIGATION MANAGER

Short Title (10 Characters)

SSNAV MGR

Pay Plan

Enlisted

Career Field

ET(NAV)

Proficiency Level

J/M

Other Relationships and Rules:

NECs may include 14GM, 14NM, 14NP, 14NV, 14TK, and 14XM

Job Description

Submarine Navigation Managers assess navigation division training, audit navigation division records, coordinate navigation division maintenance, and coordinate navigation division equipment modifications. They review naval correspondence, develop navigation watch bills, and develop shipboard navigation instructions. They prepare narrative reports of operations and exercises and evaluate piloting and modified piloting team performance. They monitor maintenance quality control, prepare weekly preventive maintenance schedules, review completed maintenance data forms, supervise the repair of electronic systems and subsystems, use accounting procedures to maintain control of inventories and work flow, estimate time and support required for repair of equipment. They provide technical and supervisory liaison between work centers, implement and administer maintenance and repair programs, and prepare quarterly preventive maintenance schedules. They oversee the inventory, updating, and correcting of navigation charts and publications; develop navigation plans and voyage plans based on assigned operational tasking; review navigation logs and records; and stand watch as Navigation Supervisor. They train and supervise the Submarine Navigation Operators and Submarine Navigation Technicians in the performance of their assigned tasks. They advise the Officer of the Deck (OOD), Navigator, and Commanding Officer regarding the Rules of the Road, current operations, and navigation requirements. Submarine Navigation Managers are very senior Electronics Technicians with significant navigation experience.

DoD Relationship**Title and Group:**

Navigation, Communication, and
Countermeasure, N.E.C
110

Code and Area:

110200
11

O*NET Relationship**Title and SOC Code:**

First-Line Supervisors/Managers of
Mechanics, Installers, and Repairers
49-1011.00

Name and Family Code:

Installation, Maintenance, and Repair
49

ADMINISTRATION**Paygrade**

E6

Task Type

CORE

Task Statements

Administer Preventive Maintenance Management Programs (PMMP)

Management of Personnel Resources
Management of Material Resources

Abilities

Deductive Reasoning
Written Comprehension

E7

CORE

Analyze navigation exercises

Quality Control Analysis
Complex Problem Solving

Inductive Reasoning
Problem Sensitivity

E5

CORE

Analyze schematic diagrams

Reading Comprehension
Complex Problem Solving

Inductive Reasoning
Problem Sensitivity

E7

CORE

Analyze service logs

Active Learning
Management of Material Resources

Inductive Reasoning
Problem Sensitivity

E5

CORE

Analyze wiring diagrams

Reading Comprehension
Systems Analysis

Inductive Reasoning
Problem Sensitivity

E6

CORE

Audit Quality Assurance (QA) packages

Quality Control Analysis
Management of Material Resources

Information Ordering
Written Comprehension

E6

CORE

Audit quartermaster records

Quality Control Analysis
Reading Comprehension

Information Ordering
Written Comprehension

E5

CORE

Collect navigation equipment performance data

Quality Control Analysis
Systems Evaluation

Number Facility
Problem Sensitivity

E5

CORE

Conduct entering port checks

Complex Problem Solving
Critical Thinking

Problem Sensitivity
Written Comprehension

E6

CORE

Conduct navigation team training

Instructing
Speaking

Oral Expression
Speech Clarity

E5

CORE

Conduct Strategic Weapons System (SWS) strategic navigation subsystem advanced operations

Operation and Control
Equipment Maintenance

Deductive Reasoning
Problem Sensitivity

E6	CORE	Coordinate Strategic Weapons System Maintenance Information Network (SWSMIN) programs	<i>Programming</i> <i>Systems Analysis</i>	<i>Category Flexibility</i> <i>Deductive Reasoning</i>
E6	CORE	Deliver piloting and operations briefs	<i>Speaking</i> <i>Coordination</i>	<i>Oral Expression</i> <i>Speech Clarity</i>
E5	CORE	Develop piloting and operations briefs	<i>Management of Material Resources</i> <i>Management of Personnel Resources</i>	<i>Originality</i> <i>Visualization</i>
E6	CORE	Implement Hazardous Material (HAZMAT) waste disposal methods	<i>Management of Material Resources</i> <i>Operation and Control</i>	<i>Problem Sensitivity</i> <i>Information Ordering</i>
E6	CORE	Inspect Hazardous Material (HAZMAT) storage areas	<i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Problem Sensitivity</i>
E4	CORE	Interpret blueprints	<i>Complex Problem Solving</i> <i>Critical Thinking</i>	<i>Deductive Reasoning</i> <i>Written Comprehension</i>
E4	CORE	Interpret schematic diagrams	<i>Complex Problem Solving</i> <i>Critical Thinking</i>	<i>Deductive Reasoning</i> <i>Written Comprehension</i>
E7	CORE	Plan Strategic Weapons System (SWS) patrols	<i>Critical Thinking</i> <i>Judgment and Decision Making</i>	<i>Fluency of Ideas</i> <i>Inductive Reasoning</i>
E7	CORE	Prepare Casualty Reports (CASREP)	<i>Active Listening</i> <i>Reading Comprehension</i>	<i>Information Ordering</i> <i>Written Expression</i>
E6	CORE	Prepare local changes to Strategic Weapons System (SWS) documentation	<i>Reading Comprehension</i> <i>Management of Material Resources</i>	<i>Fluency of Ideas</i> <i>Written Expression</i>
E6	CORE	Prepare Movement Reports (MOVREPS)	<i>Reading Comprehension</i> <i>Complex Problem Solving</i>	<i>Fluency of Ideas</i> <i>Written Expression</i>
E7	CORE	Prepare narrative reports of operations and exercises	<i>Reading Comprehension</i> <i>Complex Problem Solving</i>	<i>Fluency of Ideas</i> <i>Written Expression</i>
E7	CORE	Prepare navigation exercises	<i>Reading Comprehension</i> <i>Complex Problem Solving</i>	<i>Written Expression</i> <i>Information Ordering</i>
E6	CORE	Prepare navigation messages	<i>Reading Comprehension</i> <i>Complex Problem Solving</i>	<i>Written Expression</i> <i>Information Ordering</i>
E7	CORE	Prepare TDENT messages	<i>Reading Comprehension</i> <i>Complex Problem Solving</i>	<i>Written Expression</i> <i>Information Ordering</i>
E7	CORE	Review Casualty Reports (CASREP)	<i>Reading Comprehension</i> <i>Critical Thinking</i>	<i>Written Comprehension</i> <i>Problem Sensitivity</i>
E5	CORE	Review Hazardous Material (HAZMAT) inventories	<i>Reading Comprehension</i> <i>Critical Thinking</i>	<i>Written Comprehension</i> <i>Problem Sensitivity</i>
E6	CORE	Review navigation logs	<i>Reading Comprehension</i> <i>Quality Control Analysis</i>	<i>Written Comprehension</i> <i>Problem Sensitivity</i>
E6	CORE	Review position reports	<i>Reading Comprehension</i> <i>Quality Control Analysis</i>	<i>Written Comprehension</i> <i>Problem Sensitivity</i>
E6	CORE	Review Quality Assurance (QA) packages	<i>Reading Comprehension</i> <i>Quality Control Analysis</i>	<i>Written Comprehension</i> <i>Problem Sensitivity</i>
E6	CORE	Review Strategic Weapons System (SWS) logs	<i>Reading Comprehension</i> <i>Quality Control Analysis</i>	<i>Written Comprehension</i> <i>Problem Sensitivity</i>
E6	CORE	Supervise navigation division maintenance programs	<i>Management of Personnel Resources</i> <i>Coordination</i>	<i>Information Ordering</i> <i>Time Sharing</i>
E5	CORE	Supervise Quality Assurance (QA) testing procedures	<i>Management of Personnel Resources</i> <i>Coordination</i>	<i>Information Ordering</i> <i>Time Sharing</i>

E6	CORE	Review blueprints for accuracy	<i>Reading Comprehension</i> <i>Quality Control Analysis</i>	<i>Written Comprehension</i> <i>Problem Sensitivity</i>
E6	CORE	Review system diagrams for accuracy	<i>Reading Comprehension</i> <i>Quality Control Analysis</i>	<i>Written Comprehension</i> <i>Problem Sensitivity</i>

CHART PREPARATIONS

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Calculate Estimated Time of Arrival (ETA)	<i>Mathematics</i> <i>Critical Thinking</i>	<i>Deductive Reasoning</i> <i>Mathematical Reasoning</i>
E5	CORE	Calculate red and yellow soundings	<i>Mathematics</i> <i>Critical Thinking</i>	<i>Deductive Reasoning</i> <i>Mathematical Reasoning</i>
E4	CORE	Calculate Speed Of Advance (SOA)	<i>Mathematics</i> <i>Critical Thinking</i>	<i>Deductive Reasoning</i> <i>Mathematical Reasoning</i>
E6	CORE	Determine chart allowances	<i>Critical Thinking</i> <i>Judgment and Decision Making</i>	<i>Deductive Reasoning</i> <i>Written Comprehension</i>
E5	CORE	Determine danger areas	<i>Critical Thinking</i> <i>Judgment and Decision Making</i>	<i>Deductive Reasoning</i> <i>Written Comprehension</i>
E5	CORE	Determine lines of demarcation	<i>Critical Thinking</i> <i>Judgment and Decision Making</i>	<i>Deductive Reasoning</i> <i>Written Comprehension</i>
E6	CORE	Determine navigation publications allowances	<i>Critical Thinking</i> <i>Judgment and Decision Making</i>	<i>Deductive Reasoning</i> <i>Written Comprehension</i>
E4	CORE	Determine shoal water	<i>Critical Thinking</i> <i>Judgment and Decision Making</i>	<i>Deductive Reasoning</i> <i>Written Comprehension</i>
E5	CORE	Interpret chart information using sailing directions and fleet guides	<i>Complex Problem Solving</i> <i>Critical Thinking</i>	<i>Deductive Reasoning</i> <i>Written Comprehension</i>
E5	CORE	Plot danger bearings	<i>Critical Thinking</i> <i>Mathematics</i>	<i>Written Expression</i> <i>Mathematical Reasoning</i>
E5	CORE	Plot danger ranges	<i>Critical Thinking</i> <i>Mathematics</i>	<i>Written Expression</i> <i>Mathematical Reasoning</i>
E5	CORE	Plot maximum deviations from proposed tracks	<i>Critical Thinking</i> <i>Mathematics</i>	<i>Written Expression</i> <i>Mathematical Reasoning</i>
E6	CORE	Plot moving havens	<i>Critical Thinking</i> <i>Mathematics</i>	<i>Written Expression</i> <i>Mathematical Reasoning</i>
E5	CORE	Plot swing and drag circles	<i>Critical Thinking</i> <i>Mathematics</i>	<i>Written Expression</i> <i>Mathematical Reasoning</i>
E5	CORE	Plot turn slide bars	<i>Critical Thinking</i> <i>Mathematics</i>	<i>Written Expression</i> <i>Mathematical Reasoning</i>
E5	CORE	Prepare open ocean tracks	<i>Reading Comprehension</i> <i>Complex Problem Solving</i>	<i>Written Expression</i> <i>Information Ordering</i>
E5	CORE	Prepare precision anchoring plans	<i>Reading Comprehension</i> <i>Complex Problem Solving</i>	<i>Written Expression</i> <i>Information Ordering</i>
E5	CORE	Prepare restricted water tracks	<i>Reading Comprehension</i> <i>Complex Problem Solving</i>	<i>Written Expression</i> <i>Information Ordering</i>
E4	CORE	Prepare ship's Plan of Intended Movement (PIM)	<i>Reading Comprehension</i> <i>Complex Problem Solving</i>	<i>Written Expression</i> <i>Information Ordering</i>

E5	CORE	Recommend courses for navigating a measured mile <i>Complex Problem Solving Speaking</i>	<i>Deductive Reasoning Information Ordering</i>
E6	CORE	Review navigation chart preparations <i>Reading Comprehension Quality Control Analysis</i>	<i>Written Comprehension Problem Sensitivity</i>
E5	CORE	Select charts for proposed transits <i>Complex Problem Solving Equipment Selection</i>	<i>Written Comprehension Deductive Reasoning</i>

ELECTRONIC NAVIGATION SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Calibrate inertial navigation systems	Equipment Maintenance Operation and Control	Control Precision Perceptual Speed
E5	CORE	Evaluate inertial navigation systems performance	Systems Evaluation Operation Monitoring	Selective Attention Deductive Reasoning
E4	CORE	Operate Voyage Management Systems (VMS)	Operation and Control Systems Analysis	Manual Dexterity Problem Sensitivity

GENERAL ELECTRICAL SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Operate valve control systems	Operation and Control Systems Analysis	Manual Dexterity Problem Sensitivity

INFORMATION SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E6	CORE	Coordinate Information System (IS) equipment modifications	<i>Programming</i> <i>Systems Analysis</i>	<i>Rate Control</i> <i>Problem Sensitivity</i>
E5	CORE	Implement Information System (IS) policies	<i>Management of Material Resources</i> <i>Operation and Control</i>	<i>Problem Sensitivity</i> <i>Information Ordering</i>
E6	CORE	Review Local Area Network (LAN) hardware inventories	<i>Reading Comprehension</i> <i>Critical Thinking</i>	<i>Written Comprehension</i> <i>Problem Sensitivity</i>
E6	CORE	Review operating system safeguards	<i>Reading Comprehension</i> <i>Critical Thinking</i>	<i>Written Comprehension</i> <i>Problem Sensitivity</i>
E5	CORE	Safeguard operating systems	<i>Management of Material Resources</i> <i>Critical Thinking</i>	<i>Perceptual Speed</i> <i>Number Facility</i>

MISCELLANEOUS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Render honors	Critical Thinking Judgment and Decision Making	Response Orientation Speech Recognition
E4	CORE	Supervise colors ceremony	Management of Personnel Resources Coordination	Information Ordering Time Sharing

NAVIGATION AND PILOTING

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Advise Officer of the Deck (OOD) of chain scope required for anchoring	Critical Thinking Mathematics	Oral Expression Speech Clarity

E5	CORE	Advise Officer of the Deck (OOD) of ocean depth and bottom while anchoring	<i>Speaking</i> <i>Mathematics</i>	<i>Oral Expression</i> <i>Speech Clarity</i>
E5	CORE	Advise the Officer of the Deck (OOD) on Rules of the Road	<i>Speaking</i> <i>Learning Strategies</i>	<i>Oral Expression</i> <i>Speech Clarity</i>
E4	CORE	Calculate position relative to Plan of Intended Movement (PIM)	<i>Mathematics</i> <i>Critical Thinking</i>	<i>Deductive Reasoning</i> <i>Mathematical Reasoning</i>
E5	CORE	Calculate tide effects on ship's movements	<i>Science</i> <i>Critical Thinking</i>	<i>Inductive Reasoning</i> <i>Mathematical Reasoning</i>
E5	CORE	Calculate wind effects on ship's movements	<i>Science</i> <i>Critical Thinking</i>	<i>Inductive Reasoning</i> <i>Mathematical Reasoning</i>
E4	CORE	Compare fathometer readings with charts	<i>Mathematics</i> <i>Critical Thinking</i>	<i>Mathematical Reasoning</i> <i>Written Comprehension</i>
E4	CORE	Compare gyrocompass and inertial headings	<i>Quality Control Analysis</i> <i>Mathematics</i>	<i>Mathematical Reasoning</i> <i>Written Comprehension</i>
E6	CORE	Compute position uncertainty using fix expansion method	<i>Mathematics</i> <i>Critical Thinking</i>	<i>Mathematical Reasoning</i> <i>Problem Sensitivity</i>
E6	CORE	Compute radar repeater bearing and range errors	<i>Mathematics</i> <i>Critical Thinking</i>	<i>Mathematical Reasoning</i> <i>Problem Sensitivity</i>
E5	CORE	Conduct strike group operations	<i>Complex Problem Solving</i> <i>Judgment and Decision Making</i>	<i>Deductive Reasoning</i> <i>Written Comprehension</i>
E4	CORE	Convert between relative bearings and true bearings	<i>Mathematics</i> <i>Critical Thinking</i>	<i>Mathematical Reasoning</i> <i>Number Facility</i>
E7	CORE	Evaluate navigation information	<i>Systems Evaluation</i> <i>Operation Monitoring</i>	<i>Selective Attention</i> <i>Inductive Reasoning</i>
E6	CORE	Evaluate piloting team performance	<i>Systems Evaluation</i> <i>Monitoring</i>	<i>Selective Attention</i> <i>Inductive Reasoning</i>
E5	CORE	Evaluate radar information	<i>Systems Evaluation</i> <i>Operation Monitoring</i>	<i>Selective Attention</i> <i>Inductive Reasoning</i>
E6	CORE	Extract navigation information from Operation Orders (OPORDS)	<i>Reading Comprehension</i> <i>Active Learning</i>	<i>Written Comprehension</i> <i>Memorization</i>
E4	CORE	Interpret cloud formations and heights	<i>Complex Problem Solving</i> <i>Critical Thinking</i>	<i>Deductive Reasoning</i> <i>Far Vision</i>
E6	CORE	Recommend paths for storm evasion	<i>Critical Thinking</i> <i>Judgment and Decision Making</i>	<i>Oral Expression</i> <i>Perceptual Speed</i>
E4	CORE	Monitor harbor common circuits	<i>Active Listening</i> <i>Management of Material Resources</i>	<i>Auditory Attention</i> <i>Information Ordering</i>
E4	CORE	Obtain visual bearings using a periscope	<i>Mathematics</i> <i>Management of Material Resources</i>	<i>Far Vision</i> <i>Information Ordering</i>
E4	CORE	Operate Very High Frequency (VHF) equipment while on surface	<i>Operation and Control</i> <i>Systems Analysis</i>	<i>Manual Dexterity</i> <i>Problem Sensitivity</i>
E4	CORE	Predict ship's future positions	<i>Mathematics</i> <i>Critical Thinking</i>	<i>Mathematical Reasoning</i> <i>Information Ordering</i>
E4	CORE	Recommend courses for man overboard recoveries	<i>Complex Problem Solving</i> <i>Speaking</i>	<i>Deductive Reasoning</i> <i>Information Ordering</i>
E4	CORE	Recommend courses for precision anchoring	<i>Complex Problem Solving</i> <i>Speaking</i>	<i>Deductive Reasoning</i> <i>Information Ordering</i>

E4	CORE	Sight and report visual contacts	<i>Complex Problem Solving Speaking</i>	<i>Visual Color Discrimination Oral Expression</i>
E6	CORE	Supervise open ocean operations	<i>Management of Personnel Resources Coordination</i>	<i>Information Ordering Time Sharing</i>
E6	CORE	Supervise piloting operations	<i>Management of Personnel Resources Coordination</i>	<i>Information Ordering Time Sharing</i>

SHIP CONTROL SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Operate Ballast Control Panels (BCP)	<i>Operation and Control Systems Analysis</i>	<i>Manual Dexterity Problem Sensitivity</i>
E5	CORE	Operate Ship's Control Panels (SCP)	<i>Operation and Control Systems Analysis</i>	<i>Manual Dexterity Problem Sensitivity</i>

STRATEGIC WEAPONS SUPPORT SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Operate hovering systems	<i>Operation and Control Systems Analysis</i>	<i>Manual Dexterity Problem Sensitivity</i>
E5	CORE	Operate missile compensation systems	<i>Operation and Control Systems Analysis</i>	<i>Manual Dexterity Problem Sensitivity</i>